



## SESSION III IMMUNE RESPONSES

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## Ubiquitin and Ubiquitin-like Modifications in Viral Infection and Immunity Workshop

### SESSION III: Immune Responses **HIGHLIGHTS**

- DRiPs promoted by tRNA misacylation; accelerated by viral infection / TLR signalling
- UCH-L1 up-regulated by EBV inhibits LFA1 clustering & loc'n to lipid rafts
- Signaling response to dsRNA via MAVS

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### SESSION III: Immune Responses **HIGHLIGHTS**

- Antiviral effects of ISG15 conj'n
- Viral & host (UBP43) de-ISG15ylating enz's; UBP43 validated drug target
- Non-cat role UBP43 (IFNAR); non-conj'n role ISG15 (Nedd4 inhib)
- EBNA1 decrease of ND10 (PML)  
depends on binding USP7/HAUSP

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## SESSION III: Immune Responses HIGHLIGHTS

- DCAF1/VprBP links Vpr & DDB1

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### SESSION III: Immune Responses

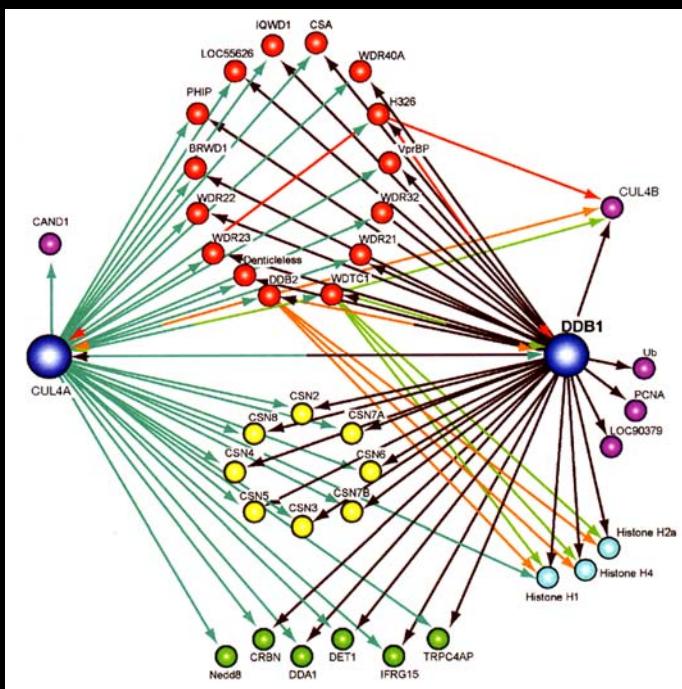
#### Research Opportunities & New Directions

- Host & viral DUBs: substrates; reg interactions; drug targets
- New signaling pathways (e.g., MAVS); k.o. mice to uncover redundancies
- Revisiting translation

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## SESSION III: Immune Responses

### Research Opportunities & New Directions



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## SESSION III: Immune Responses

### Discussion Topics

- Extent & significance of tRNA misacylation, esp. upon infection
- Conj'n independent functions of ISG15? Other UbL's?
- Deconj'n-independent functions of DUB(L)s?
- Cell-type specific pathways (e.g., MAVS & MyD88 in pDC cells)